

Kilowatter

The voice of the KW Amateur Radio Club

September 2005

Since 1922

Kitchener-Waterloo Amateur Radio Club

133 Weber St. N. Suite #3-138;
Waterloo, Ontario
N2J 3G9

EDITOR: Dennis Tabbert VA3DLT

PHONE: 463-9641

email: va3dlt@rac.ca

Web site: <http://www.kwarc.org>

MONDAY'S MEETING

Date: Monday September 12th 2005
Time: 7:30pm
Place: RCAF Wing 404 Club. End of Dutton Dr. Waterloo. Off Weber St. N
Topic: Introduction to HF operating procedures

UPCOMING EVENTS

<p>Barrie Hamfest Barrie Amateur Radio Club Saturday, September 10, 2005, Barrie ON</p>	<p>Halton County Radial Railway Museum Mississauga Amateur Radio Club (VE3MIS) Saturday, September 24, 2005, Milton ON</p>
<p>LARC 28th Annual Flea Market 2005 London Amateur Radio Club Sunday, September 25, 2005,</p>	<p>Hamilton Amateur Radio Club "HAMFEST 2005" Hamilton Amateur Radio Club Saturday, October 15, 2005, Ancaster</p>
<p>York Region Hamfest York Region Amateur Radio Club Saturday, October 29, 2005, Markham ON</p>	
<p>Central Ontario Hamfest & Fleamarket Guelph ARC & Kitchener Waterloo ARC Saturday, June 10, 2006, Fergus ON</p>	<p>Annual K.W.A.R.C. Field Day Doon Pioneer Village June 24th - 25th</p>

KWARC Directors 2005-2006

President	Gord Hayward	VE3EOS	744-7205
Vice President	Bob Pelling	VE3XNB	885-9995
Past President	Ben Sasiela	VE3ST	748-0445
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Director	Tedd Doda	VE3TJD	634-5949
Director	Bill Riddell	VE3WFR	571-9875

The Executive Committee Chairs

Program	vacant		
Technical	Tedd Doda	VE3TJD	634-5949
Packet	Tedd Doda	VE3TJD	634-5949
Database Mgr	Dave Schwartz	VA3DGS	884-3594
Bulletin Editor	Dennis Tabbert	VA3DLT	463-9641
Edu. Co-Ord	Ron Gimbel	VE3DBD	584-2009
Chief Examiner	Vern Stroud	VE3RVS	743-9342
Auto Patch	Ben Sasiela	VE3ST	748-0445
ARES Manager	Larry Gorman	VE3LGN	884-6782
CANWARN Mgr.	Bob Pelling	VE3XNB	885-9995
QSL Manager	Gord Gibson	VE3NQK	893-5148
Inventory	Ben Sasiela	VE3ST	748-0445
Field Day	Bob Pelling	VE3XNB	885-9995
Webmaster	Dennis Tabbert	VA3DLT	463-9641
Bereavement	Marg Cassel	VE3RE	634-5139
Flea Market	Bob Pelling	VE3XNB	885-9995
QCWA Rep	Harold Braun	VE3DWH	884-2388

KWARC Owned Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3KSR	146.970	131.8	Yes	Baden Hill
Voice	VE3RCK	146.865	131.8	Yes	Mannheim
Packet	VE3KSR-0	145.010			Baden Hill
Packet	VE3KWQ	145.090			Waterloo
Voice	VE3IXY	224.340	131.8		Mannheim
IRLP	VE3RBM	444.875	131.8		Mannheim
Echolink	VE3SED	53.370	131.8		Baden Hill
Voice	VE3SED	442.200	131.8		Baden Hill
Special Events		147.510			Kitchener

Other Area Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3EUC	444.700		N	Elmira
Voice	VE3KFM	442.000		Y open	Kitchener
Voice	VE3RND	145.330		Y	Plattsville
Voice	VE3SWR	146.790		N	Cambridge
IRLP	VE3WFM	147.090		N	Waterloo
Voice	VE3WWW	146.835		N	U of W
Voice	VE3RSS	147.030		N members	Acton
ULR Link	VE3BHR	447.075		Y	Baden
Voice	VE3RKL	443.850		N	Guelph
Voice	VE3ZMG	145.210		N Open	Guelph
Packet	VE3VIQ	145.570			Guelph
TCP/IP	VE3MKY	145.570			Guelph
TCP/IP	VE3UOW	145.570			U of W B
Voice	VE3BAY	442.350		Y	Kitchener

Pres Sez Gord Hayward VE3EOS President KWARC



Hello All.

I hope your summer was good and that you had some time to have some fun on the air. Welcome to a new season of club activities now that the weather is going to get colder and better for antenna work. I also want to extend a special welcome to all the amateurs who have just got HF privileges. A new adventure awaits.

Our first meeting will be on Monday, September 12 at 7:30 PM at the 404 wing (Dutton Drive in Waterloo) as usual. I hope you will come and that you will pass the word on to any radio amateur that you know who might not know about the club. In addition to the program which will introduce graduating VHFers to HF, we will describe some of the summer activities.

The flea market in Fergus went well. In spite of the construction, the setup worked thanks to Mike's efforts in getting a pile of snow fencing and the construction people lending us a few pallets of cinder blocks. Field day was also a fun event with 6 stations active on SSB, CW and digital modes. There was some interesting weather to keep the Canwarn controllers and spotters on their toes, but nothing untoward happened in Kitchener.

If you have any radio stories to tell, from this summer or before, please get them to our bulletin editor, Dennis VA3DLT, and share them with us and those out there in the cyber equivalent of "vacuum land" (for those of us who remember Alan McFee at the CBC). If you have any other ideas for the club, I'll be glad to have them. See you on the 12th.

Cheers and 73 de
Gord, VE3EOS,
Pres, KWARC

Tech Report for September 2005



Well, I hope that all of you had as safe of a Summer as the equipment did :)

Only one incident occurred during the whole summer, in which the RC-210 controller on Baden Hill took a surge. Fast work by the Tech Committee had it back up and running within a few days, with spare parts being supplied by John, VE3AMZ. In true Ham spirit, he offered his (still unused) RC-210 as a parts donor until the parts arrived from Arcom.

After the parts arrived, Johns unit was returned to working status...Thanks John!

Thanks to Bob, VE3NXT, a newer 7 element Sinclair beam will be installed at Baden Hill for the link from VE3SED to Hamilton. This will give a more dependable signal in both directions.

The Tech Committee will be evaluating the remainder of the packet equipment in September, and install whatever equipment can be salvaged. At the least, we would like to get the UHF link back to VE3DTV in Hamilton so that the users of the "Packet Cluster" can resume operation. There was "talk" about a new group restarting packet in Toronto, but I think the development has stalled, as we haven't heard any news lately.

That's all for this issue, and remember to use the "trouble log" feature on the website to report any problems. If you have any ideas on how to make any of the KWARC systems better, please email me directly.

Thanks, and 73,

Tedd, VE3TJD
Tech Chairman for the KWARC Inc.

The Storm of August 19, 2005



Well for me it started at 10:26. I was on the last day of a 3 week course and my Canwarn Pager went off. It had never gone off during class before and scared everyone, including myself! It was just a thunderstorm watch and I apologized to the class and we continued. We broke for lunch and were about to go back at 12:55 when it went off once more. This time it was a Tornado Watch. I excused myself and went out to my car to check KSR to see if anything was going on. Terry VE3 NSV was already running an impromptu net so I informed him that I was in class and asked if he minded keeping it going for a while. By the time I got back into the classroom, at 1:03 the pager went off yet again. By this time it was becoming a running joke! At 1:15 it went off yet again and I decided that it was time I leave class and get onto the Net.

I normally do the Net Control from home and have a base station set up (almost) and have the web site favorites, GRLevel3 Software and my logging software up and running in a few minutes. I have myself encircled with computers at "Mission Control" as my friends call my shack in the basement. Unfortunately I didn't feel there was time to run all the way back to Cambridge so I opted to go to the fire hall which is 2 blocks from where I was attending class and man the station there. I contacted Terry again and asked if he could continue for a bit as I got organized there. He agreed and kept things going as I set up what I could. Terry and I also kept in communication via MSN as not to tie up the repeater since we were still under Condition RED. Through MSN, Terry, myself and his friend Jason got me set up quickly at the fire hall and soon I took over for Terry. I had Ben, VE3ST helping me with the repeater as I could not get DTMF to function on the fire hall station and Ron VA3TVS helping me out with things as the pagers kept going off saying the tornado warnings were continuing, yet the web sites and the radar clearly showed they were out.

We ran the net until just after 5:00 when it was apparent the heavy weather was now past us and dumping onto downtown Toronto. All in all it was a great effort by everyone that participated and I want to thank everyone for their help. In particular I would like to thank the weather spotters as we had a wide range of weather that day and it was nice to have the eyes and ears on the ground to keep us informed what was going on. I did talk to quite a few after that day that mentioned they were listening to the Net Control yet did not check in. I realize that with condition red, we typically only take check in's when it is a rotating cloud spotted but when things were downgraded, it is nice to get as many check in as possible, just to get a broader base of what is really happening. Part of the check in procedure is to ask for your spotter ID number among other things but it is not required. Don't hesitate if you hear the net up to check in when it is asked for, the more the merrier!!

The following are excerpts from an email sent out the day after the storm by Environment Canada that depicts what the level of damage was to the various areas.

CONFIRMED TORNADOES OVER SOUTH CENTRAL ONTARIO ON FRIDAY AUGUST 19.

SEVERE THUNDERSTORM ACTIVITY ASSOCIATED WITH A WARM FRONT TRACKED FROM SOUTHWESTERN ONTARIO INTO SOUTHCENTRAL ONTARIO FRIDAY AFTERNOON. THE STRONGEST SEVERE THUNDERSTORM WAS LONG LIVED AND TRACKED FROM MILVERTON TO JUST NORTH OF FERGUS AND ACROSS BRAMPTON AND THE NORTHERN PART OF TORONTO THEN EAST TO OSHAWA. IT LEFT A TRAIL OF DAMAGE IN ITS WAKE WITH MANY AREAS RECEIVING EXCESSIVE RAINFALLS AS WELL AS TWO DISTINCT TORNADOES AND SOME LOCALLY LARGE HAIL. ENVIRONMENT CANADA CONDUCTED COMPREHENSIVE DAMAGE SURVEYS OF THE AFFECTED AREAS THIS AFTERNOON AND HAVE CONFIRMED THAT TWO SEPARATE TORNADOES OCCURRED. BOTH TORNADOES WERE ASSOCIATED WITH THE SINGLE LONG LIVED STORM AND ESTIMATED TO RANK AS F2 ON THE FUJITA SCALE WITH WINDS OF 180 TO 250 KM/H.

THE FOLLOWING IS AN UPDATED LIST OF DAMAGE REPORTS RECEIVED AS OF 4 PM

12:50 PM MILVERTON INTERMITTENT F2 TORNADIC DAMAGE PATH

1:20 PM CONESTOGO LAKE 25 KM LONG AND UP TO 1 KM WIDE 28 FOOT MOTOR HOME CARRIED 50 FEET. NUMEROUS TREES DOWN. COTTAGES DAMAGED. BARNs DESTROYED

1:30 PM SALEM TO F2 TORNADIC DAMAGE PATH 10 KM LONG

1:45 PM BELLWOOD LAKE AND UP TO 1 KM WIDE. DEPARTMENT OF WORKS BUILDING SEVERELY DAMAGED IN SALEM WITH ROOF CARRIED 750 METRES. BARNs/SILO DESTROYED AND TRACTORS LIFTED. NUMEROUS TREES DOWN. HOUSE SEVERELY DAMAGED NORTH OF FERGUS WITH ROOF LIFTED OFF. CAR ROLLED. DAMAGED TRACTOR TRAILOR. LIVESTOCK KILLED

2:30-3 PM BRAMPTON TORRENTIAL RAIN AND FLOODING WITH ABOUT 100 MM RAIN

3:15-4 PM TORONTO SEVERE FLOODING AND QUARTER TO POSSIBLY GOLF BALL SIZE HAIL. LOCALIZED TREES DOWN DUE TO BRIEF STRONG STRAIGHT-LINE WINDS

3:30 PM ENVIRONMENT 136 MM OF RAIN AT THE ONTARIO STORM CANADA PREDICTION CENTRE WITH FLOODING DOWNSVIEW

3:15-4 PM TORONTO 175 MM RAIN WITH FLOODING

4 - 4.30 PM AJAX TO OSHAWA TORRENTIAL RAIN AND FLASH FLOODING

5.30 PM HAMILTON QUARTER-SIZED HAIL. FUNNEL CLOUDS SIGHTED AND A FEW TREES DOWN

As you can see, we in the K-W area were extremely lucky that this storm even though was extremely intense, managed to pass by with no loss of human life.

Past President Ben Sasiela



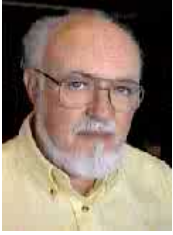
Greeting to all from Long Point, that's where I have been spending the majority of this summer, relaxing in the summer sun, and trying to keep cool during these very hot humid days that we have had this year. As we begin a new season of club meeting, there have been changes to the operating requirements of amateur radio. Recently, spectrum Canada approved the recommendations proposed by RAC that grant privileges to operators to operate on 30 Megs and below without the need to be proficient in Morse code. This action was long over due, and for many that found themselves struggling in learning the code; it has opened up a new facet of our hobby which will provide them the opportunity to broaden their operating experiences. I for one, needed to do it the hard way, studying for hours to master the basic requirements, struggling to learn the 5 words per minute code, I can remember driving down the highways, with a Morse key on my lap, tapping out words that were on highway signs, embarrassed when I sent the letter "S" was that three dits, or four?? But after many miles and sore wrists from constant practice, I felt that I was ready for the test, only to find that I had failed at my first attempt. What a disappointment it was, not to mention the embarrassment in front of the examination. By the way, it was our good friend Eric VE3BB that had to turn his thumbs down on my exam. "Don't worry, he mentioned" with his broad smile, "your nervous. Come back to tomorrow". His advice was true to the rule, and the second exam went perfectly. "I'm on HF finally," I said, with a big smile. That experience gave me privileges to work 160 meters, 80 meters and 10 meters. My first contact was with a lovely YL from Ohio State, on Morse code. I can remember this experience. Slowly I pounded out on the straight key, my greeting to her, and to this day, I can remember her reducing her sending speed so I could continue the QSO. How did she know I was a rookie? That she was my first contact on Morse code. I rushed into the bedroom and immediately woke up my wife, who was fast asleep, and told her what happened. With a big smile she said, "that's nice" and turned over and fell asleep. OK I thought then and there, we have to get our 12 words per minute to get on the other bands, so back to driving with the key in my lap, more practice They told me (the experienced operators) that the next stage was not as easy, and it was true, it seemed that it took forever to cross the 12 words per minute proficiency. Morse code was a tough

hurdle to accomplish, but it was the cost of membership if you wanted to advance to the next stage of amateur radio enjoyment. To day, operators need to become more knowledgeable and score higher marks on their basic exams, a not to easy feat, to be granted the same privileges, and that's the good news. Nothing comes easy in life, or it's not worth the pleasure of accomplishment. Far too often, our beef in life points to the old saying "its too hard" "why must we do this" Its like learning to fly airplanes, the flying is easy, it's the landings that you have to perfect. As Past president, one of my disappointments at field day was the absence of basic operators missing out on having a try on HF contacting, because of their restrictions. I hope this will change, and I hope that future field day events brings a rush of club members that now have operating privileges on HF bands. OK, repeaters have their place in the hobby, with Voice over the Internet, and linking of millions of repeaters across the province, one can chat with a station in Ottawa, from Windsor, or in china, however, just think of the pleasure of talking direct from your car to someone in New Zealand, or Russia, or some distant IOTA station direct, It's you and him/her, without the aid of other devices. You got to be happy over contacts like that. It's your skill and theirs that made this possible. Watching your headlights flicker when the radio is sucking back lots of power feeding that fine tuned mobile whip emitting an aurora spark.


To the many that finally will get the delight of operating on HF due to these recent changes, and now can hear static crashes, ignition noise, unpredictable band conditions, and have to figure out where to erect those long wire antenna's I extend congratulations and a warm welcome. Long over due in my opinion. Its not scary, its just different, and you have to say "over" there are no repeater beeps. There are also no time out timers, so you can talk forever, well, at least until you have to I.D. Check into some of the great nets and chat with fantastic operators all over the world. See you some evening at your favorite coffee place; I'll be the guy in the truck with the flickering headlights. Come over and lets compare battery drain.

73 from under 30 Megs
Ben Sasiela
Past Pres KWARC
VE3ST

[HF NOW OPEN FOR MOST AMATUERS](#) [By Bill Graham VE3ETK, Assistant Club Examiner](#)



Here it is folks! The hottest news from Industry Canada right off the press!

-  Effective immediately, HF operation on the bands below 30 MHz has been authorized by Industry Canada for:
- a) amateurs who were certified with only the BASIC Qualification prior to 2 April 2002;
 - b) amateurs who have been certified with both BASIC and ADVANCED Qualifications;
 - c) amateurs with only the BASIC Qualification who were certified after 1 April 2002, and who achieved a pass mark of 80% or greater;

Those amateurs with only the BASIC Qualification who were certified after 1 April 2002, but who achieved less than an 80% pass mark, will either have to **qualify in Morse, write the Advanced or re-write the Basic examination** to obtain HF privileges. This latter requirement is related to a decision to increase the BASIC examination pass mark to ensure that candidates have been tested in all areas of the syllabus. Amateurs who need to confirm their examination marks should contact their Accredited Examiner. Accredited Examiners are required to retain marks for at least three years.

Also effective immediately, the pass mark for the BASIC Qualification has been raised from 60% to 70%.

Amateurs wishing to have their certificates annotated with a Morse Qualification may still do so by passing the Morse examination at 5 Words Per Minute.

Holders of only the BASIC Qualification may now construct, install and operate transmitters from kits that have been commercially designed and packaged. BASIC-only holders still are not authorized to modify or install and operate modified commercially manufactured equipment.

For all of the details check out the RAC website at: <http://www.rac.ca/>

What does this mean for you, our reader?

Although the document is fairly straight forward I'm going to try and put it in simple terms with some cautionary comments.

Point a) is simple; If you got a Basic only license before April 2nd of 2002 (check your certificate) you can go on HF immediately. Do check out the Canadian Band Plan before doing so and remember that with no Morse you must not venture into the code only portion of any band.

Point b) is simple also; Basic and Advanced will allow you onto HF with no Morse no matter what date your license is for. Band Plan restrictions do apply if you do not have Morse. An Advanced certificate will allow you to modify or install and operate modified commercially manufactured equipment.

Now, the tricky one, point c); If you were certified after April 1st of 2002 then you had to score 80% or higher to go on HF immediately. If you didn't, then the options are clear. Here I caution you to not say to yourself "Ah, I got 72%, close enough". As someone asked me, "do examiners keep records?" Yes we do, and so does Industry Canada. There will clearly be people checking out who's on HF and are they qualified, then reporting the matter. You could lose your ticket entirely for doing that.

Also, I'd like to caution everyone to avoid doing what happened to me. My license was Grandfathered from a Commercial Ticket and there was some delays involved. My listing on RAC was listed as 'Basic' and so I operated only Basic until the details were sorted out. When I received a letter from Industry Canada advising me that I was fully licensed I went on HF immediately. One of our members (who apparently looks up the RAC internet list for every Canadian HF contact) immediately challenged me ON THE AIR, butting into the QSO. Most embarrassing to say the least, and not the sort of thing to explain on the air. I wondered what happened to the ham standard of "An Amateur is Courteous". The proper thing would have been to give me a phone call and talk about it.

Remember, this is going to take some time for all the records and listing to get updated, while new folks are going to join us on HF. WELCOME to you!

For some of you, it will be simple to join the gang, with a little upgrading. The HF bands are a wonderful place full of new adventures and contacts, and the door is now open to move into some of the exciting opportunities to become involved in Ham Radio from the technical side.



Tedd Doda Technical Chairman

Lights or LEDs?

Most of you have some sort of radio that uses those darn little incandescent bulbs that run hot, and seem to last just long enough to get out of the warranty period of the radio?

Yes, I've had my fair share of replacing these little buggers. In the best case scenario, you can get by with a soldering iron and some solder braid. But as the radios get smaller and smaller, specialized tools are needed like a desoldering station and a real good magnifying

glass! The worst part of this procedure is that you KNOW you will have to do it again in a year or two.



How would you like to do it once and for all, and change the colour of the display at the same time? The new series of high output LEDs (acronym for Light Emitting Diode) are amazingly small, draw much less current than the bulbs, and are available in many colours!

I wanted to see if the light output of these little gems was up to the task of illuminating a large LCD (Liquid Crystal Display) of a modern dual band radio, so Terry, VE3NSV offered his Yaesu FT-8100. His radio had the right hand side bulb out. Due to light conditions, you can just tell that the right hand side is slightly darker than the left.



The rest of the article will contain the pictures taken during the change over, with comments below the images. I will have to say that from the time of doing the FT-8100, I've done about 8 more radios ranging from an Alinco ALD-24T, a Yaesu FT-5100, and a few Kenwoods. The 8100 was the easiest radio that I've come across for the switch to LEDs, but given enough time and patience, I can't see any radios that would not take well to using them. LEDs are available in 2 common sizes: 3mm and 5mm. This is the diameter of the lens. I found that the 3mm units are about the same size as the little bulbs they are replacing!



The FT-8100 features a removable front face, which makes the transition to LEDs easy! Once the face is off, there are a few screws to remove which will give you access to the display board.

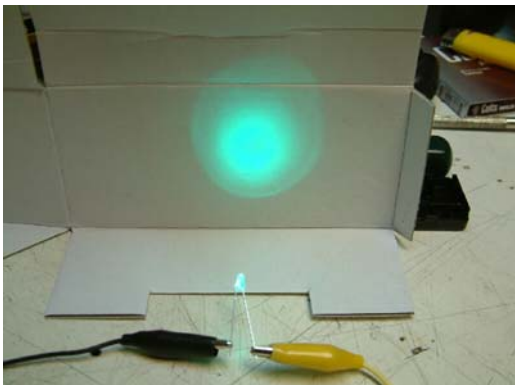


Right in the middle of the picture is one of 3 original glass bulbs. They are simply soldered to two pads on the PCB.

I'll try and describe this as best I can. This is the right light bulb and directly to the right of it is the dimmer control circuit. The large square black thing is the power transistor which controls the voltage/current going to the bulbs. Back to the bulb, the right pad directly to the right of the bulb is ground (-) and was checked with an Ohm meter. The pad to the left of the bulb is positive (+). The trace above the bulb feeds all three bulbs!

Preparation of the LEDs. Here is a picture of a high output LED showing the cone of light given off before any modifications. A normal bulb gives off light in many directions including the sides, so you can notice that something must be done

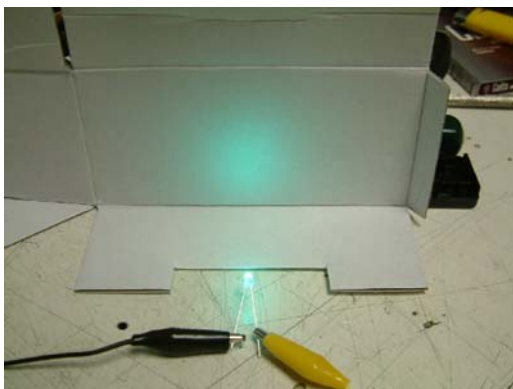
!

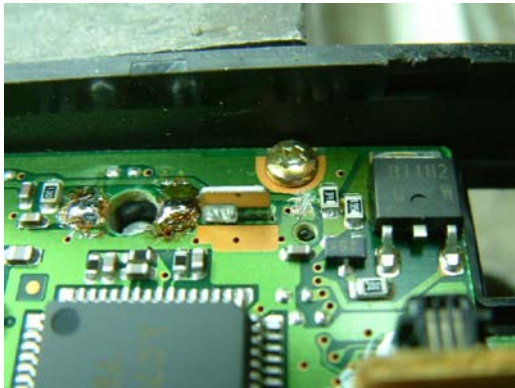


The easiest way that I could think of to diffuse the light given off by an LED is to "ruff" up the plastic lens. A small piece of 220 grit sandpaper gave the LED a uniform ruffness which was required. The stock LED is on top, and the modified LED is on the bottom.



Here is the same LED which has been ruffed up. Notice how much light is coming from the sides, and how "diffused" the light is coming off the end! I have tried to modify the shape of the lens, but nothing worked better than a piece of sand paper, leaving the shape alone.





Now that the LED is prepared, here is a picture of the right bulb hole, after the bulb was removed. Also notice right below the phillips screw that I've cut the trace powering the three bulbs. This is easily done using an exacto knife or a dremel tool. Just make sure that the trace is cut clean through, and check it with an Ohm meter. As many of you know, LEDs are CURRENT devices and MUST be run at, or below their current ratings. All of the LEDs I use have a maximum current rating of 35mA. I run them at 25mA, as the 10mA extra produces little extra light, and prolongs the life of the LED (yes, LEDs will NOT last forever). Running them at this current level should give you a lifetime of about 100,000 hours, or about 11 ½ YEARS of constant use! Not quite forever, but darn close.

Remember that LEDs are polarity sensitive. The long lead of the LED is positive, so make sure this lead goes to the positive pad (left in this picture). Also, if you look at the base of an LED, there is a "flat" on one side. This is the negative lead.

Remember that cut we made into the trace of the positive lead feeding the lights? Unfortunately, the pictures I took of the procedure didn't turn out, but, you have to jumper this GAP with a current limiting resistor. Different colour LEDs have different voltage drops, and this must also be taken into consideration. Every radio will have either parallel, serial, or a combination of both types of bulb configuration. Because of this, I won't get into the calculations required, but Ohms Law is used extensively, so freshen up your math! In some radios, each bulb is feed directly with 12 volts, and a 470 ohm resistor works well with most colours.



?

The picture above shows the radio with blue LEDs, but I found the display too hard to read



Here is the radio with red LEDs! The entire job took about 90 minutes

....Tedd, VE3TJD

Executive Meeting Minutes Charles Cosby Secretary

VE3CHJ

August 29, 2005



1. Call to order

Gord Hayward called to order the regular meeting of the **Kitchener – Waterloo Amateur Radio Club, Inc.** at **7:44 PM** on **August 29, 2005** in **108 Oxford St, Drumbo, Ontario.**

2. Roll call

Charles Cosby VE3 CHJ conducted a roll call. The following were present:

Gord Hayward	VE3EOS
Ben Sasiela	VE3ST
Dennis Tabbert	VA3DLT
Tedd Doda	VE3TJD
Bob Pelling	VE3XNB
Bill Riddell	VE3WFR
Gord Gibson	VE3NQK
Al MacDonald	VE3TET

3. Open issues

- a) Programs for Club meetings this season were discussed. Program for September meeting was decided to be on HF Etiquette for the newly grandfathered HF operators. Bill Riddell VE3WFR to give Ben Sasiela VE3ST a CD from RAC outlining the program. Possibly splitting this into 2 monthly meetings. Ben to talk to Bill Graham VE3ETK about doing the presentation. Dennis Tabbert VA3DLT to advertise on web site.
- b) Field Day outcome to be discussed at September meeting
- c) Central Ontario Flea Market was a success this year, revenues were up yet attendance was down
- d) Booking of 404 Wing for the club meetings was confirmed for following season by Bob, but needs to confirm December date
- e) Ratz-Bechtel hospitality room has been booked by Larry Gorman VE3LGN for the executive meetings this season.
- f) Tedd Doda VE3TJD gave a report on the club equipment, reported all ok except for possibly the KWQ system, Gord Gibson VE3NQK to test and confirm
- g) Al MacDonald VE3TET reported the club account is in black and there is enough for coming expenses

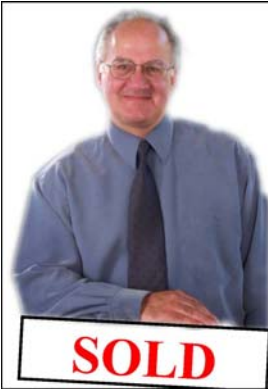
4. New business

- a) Gord Gibson VE3 NQK to present Paul Cormier VE3BMI with QSL card of his first HF contact on Field Day at the September club meeting
- b) Dennis Tabbert VA3DLT informed the meeting that the cut off date for articles for the Kilowatter are to be submitted no later than Friday Sept 2.
- c) Club discussed finding a Program Director for the upcoming season and even without one it was decided the meeting lineup should be decided up until Christmas.

5. Adjournment

Moved by **Tedd Doda VE3TJD**, seconded by **Bill Riddell VE3WFR**, **Gord Hayward VE3EOS** adjourned the meeting at **8:45 PM.**

Minutes submitted by: **Charles Cosby VE3CHJ**



"Your home is probably the most important investment and the single largest piece of equity you own. That's why I know you would want to deal with a person who puts your interests above all else. In dealing with changes in your Real Estate ownership, Buying, or Selling, call VA3MRJ for professional Real Estate service."

David Johnson, Sales Representative
Coldwell Banker Peter Benninger Realty
508 Riverbend Drive, Kitchener
742.5800 ext. 2169
David-Johnson@coldwellbanker.ca



PETER BENNINGER
REALTY

KWARC Membership Renewal

Please cut out the following renewal form and enclose it with your payment as your renewal date comes due. When you enter the birthday information; just your month and day are needed.

PLEASE MAIL TO: Kitchener-Waterloo Amateur Radio Club 133 Weber Street North, Suite #3-138 Waterloo Ontario N2J 3G9		
First Name	Call:	Last Name:
Address1:		Address2:
City:	Postal Code:	Email Address:
Phone Number: () -		Birthday: Month Day
This is a [] RENEWAL or [] NEW APPLICATION		Kilowatt Preference [] MAIL [] From WEB
<input type="checkbox"/> Full Membership @ \$20.00 <input type="checkbox"/> Family membership adder @ \$5.00 <input type="checkbox"/> Seniors Membership @ \$10.00 <input type="checkbox"/> Student or Challenged individuals @ \$10.00		<input type="checkbox"/> Associate (non voting) @ \$10.00. I am a member of the _____ Club. <input type="checkbox"/> Printed Kilowatt Newsletter "Mailed" @ \$8.00
Speed Dial number request: _____		
Comments:		
Total Amount Enclosed: \$		Your Cheque Number :



INFORMATION GATEWAY SERVICES

Kitchener-Waterloo Cambridge and Guelph

Information Gateway Services
(Kitchener-Waterloo) Inc.
151 Frobisher Dr., Suite E-118,
Waterloo, Ontario, N2V 2C9

Owner Operator : Don Sinclair VE3ICD

personal accounts for beginners, right up to the requirements of large commercial organizations.

SPECIAL OFFER TO KWARC MEMBERS

- No activation fee on standard personal accounts for KWARC members. A **\$25.00** saving
- \$50 per six months or \$75 per year paid in advance for 5 hours/month --- (extra hours at \$2.00 per hour).
OR \$15/month \$150 year for 30 hours/month (this popular package has just been increased from 20 hrs)
- N E W** Now get **UNLIMITED FREE** time from midnight until 7am
- One free KWARC e-mail address *urcall@kwarc.org* for KWARC members
No coupons or other discounts can be used in conjunction with these special offers to KWARC members ONLY.

For complete details, call Don Sinclair VE3ICD at 884-7200